

Iowa STEM Summit II

Governor's STEM Advisory Council Meeting VI

Community Choice Credit Union – Veteran's Auditorium



Tuesday, March 5, 2013

Morning Session



The Honorable Kim Reynolds
Lieutenant Governor of the State of Iowa
Co-Chair, Governor's STEM Advisory Council

Kim Reynolds grew up in St. Charles, IA, located in Madison County, and began her work in the public sector as a motor vehicle clerk in the Clarke County Treasurer's Office. She was elected Clarke County Treasurer in 1994 and was re-elected three times. While serving as Clarke County Treasurer, Reynolds served as President of the Iowa State Treasurers Association in 2000 and received the "Outstanding County Treasurer in the United States" award in 2004.

In 2008, Reynolds successfully ran for the Iowa Senate, representing Iowa's largest geographical Senate district, which included Adams, Clarke, Decatur, Montgomery, Ringgold, Taylor and Union counties. On June 24, 2010, Reynolds was named former Governor Terry Branstad's running mate, and on November 2, 2010, she was elected lieutenant governor of the State of Iowa.

Lt. Governor Reynolds is the Co-Chair of the Governor's STEM (Science, Technology, Engineering, and Math) Advisory Council along with University of Northern Iowa President Ben Allen. Reynolds is championing Iowa's STEM initiative, with the overarching goal of increasing student interest and achievement while providing access to STEM programs for students all across Iowa. This will ensure that Iowa has a skilled workforce in place for today's world economy. Reynolds's passion for STEM education resulted in her being the only elected official named to the "100 Women Leaders in STEM" by STEMconnector™ in 2012. Reynolds has taken an active role in the National Lieutenant Governors Association. She serves on the NLGA Finance Committee, International Committee and as co-chair of the State Strategies in Energy Committee. This position has taken her to Germany, China and South Korea as she explores international trade opportunities for Iowa. In June 2011, Reynolds led a 41-member trade mission to China. In February 2012, Reynolds and Governor Branstad hosted China Vice-President Xi Jinping, soon to become the next leader of the world's largest country. A month later, in March 2012, Reynolds traveled with the Iowa Soybean Association to China and Thailand and met again with Vice-President Xi in the Great Hall of the People in Beijing. She also traveled to Germany in July of 2012 as part of an energy trade mission.

In August of 2012, Reynolds served as Secretary of the Republican National Convention in Tampa, Fla. Her duties included giving the roll call of the states and authorizing Mitt Romney's official presidential nomination for U. S. House Speaker John Boehner.

Among her responsibilities as Lieutenant Governor, Reynolds serves as co-chair of the Iowa Partnership for Economic Progress (IPEP) Board with Governor Branstad, co-chairs the Military Children Education Coalition with Iowa Major General Timothy Orr, is a coordinator of the Des Moines Symphony's Yankee Doodle Drive Against Hunger and is Governor Branstad's representative on the Iowa State Fair Board. She also served as the chair of the Iowa Jobs for America's Graduates (iJAG).

Lt. Governor Reynolds and her husband, Kevin, have three daughters and four grandchildren.



President Benjamin Allen
University of Northern Iowa
Co-Chair, Governor's STEM Advisory Council

Benjamin J. Allen was named the ninth president of the University of Northern Iowa on April 28, 2006, and assumed his duties on June 5, 2006. He received his doctorate and master's degree in economics from the University of Illinois and his bachelor's of science degree in business economics from Indiana University.

President Allen was vice president for academic affairs and provost at Iowa State University and was responsible to the president in all aspects of the academic programs at Iowa State. He has the distinction of having been named the first University Distinguished Professor in Business at ISU.

Before joining the ISU faculty in 1979, he taught at Washington State University and was a Brookings Economic Policy Fellow in the Office of Transportation Regulatory Policy, U.S. Department of Transportation. He was the Visiting McKinley Professor of Economics and Public Utilities at the University of Illinois in 1986-87 and held the Oren Harris Chair in Transportation at the University of Arkansas during the 1990-91 academic year. In 1999 he was appointed chairperson of the committee for the study of Freight Capacity for the Next Century, Transportation Research Board, National Research Council, National Academy of Sciences.

In 2007, President Allen was appointed by two state college associations (the American Association of State Colleges and Universities and the National Association of State Universities and Land-Grant Colleges) to the Presidential Advisory Committee for the National Commission of University Accountability. In June 2010, President Allen received a Congressional appointment to serve on the National Advisory Committee on Institutional Quality and Integrity (NACIQI). This committee is required by law to advise the Secretary of Education with respect to establishment and enforcement of the standards of accrediting agencies or associations.

Under his leadership, the University of Northern Iowa has established priorities of increasing student achievement in undergraduate programs and providing statewide leadership in Pre-K through 12 education, including UNI's lead role in the Iowa Mathematics and Science Education Partnership with Iowa State University and the University of Iowa.

In July 2011, Gov. Branstad and Lt. Gov. Reynolds declared Science, Technology, Engineering and Math (STEM) a priority for our state. Governor Branstad has asked President Allen to serve as co-chair with Lieutenant Governor Reynolds of the STEM Advisory Council. President Allen also co-chairs the Iowa Business Council's Education Excellence in Iowa Roundtable, a non-partisan forum of business and education leaders focused on improving pre-K-16 academic achievement and establishing career development opportunities. He previously co-chaired the Institute for Tomorrow's Workforce, a non-profit educational foundation helping Iowa learners prepare for the global marketplace. A strong supporter of the local community, President Allen is a member of the executive committee of the Greater Cedar Valley Alliance. He and Pat Allen served as co-chairs of the 2010 Cedar Valley United Way Campaign.



Richard Longworth
Senior Fellow
Chicago Council on Global Affairs

Richard Longworth is a senior fellow at the Chicago Council on Global Affairs. He is the author of the book, *Caught in the Middle: America's Heartland in the Age of Globalism*, published in 2008 by Bloomsbury USA, now out in paperback. He writes and hosts the blog, "The Midwesterner," on the website of the Chicago Council's Global Midwest Initiative, at www.globalchicago.org.

Longworth joined the Council in 2003 as executive director of its Global Chicago Center after a career in journalism, most recently as senior correspondent for the Chicago Tribune. For 20 years, Longworth was a foreign correspondent for the Tribune and United Press International and was the Tribune's Chief European Correspondent. He has reported from 80 countries on five continents.

Longworth is the author of *Global Squeeze*, one of the first books on globalization, and of a MacArthur Foundation report, "Global Chicago," which led to the foundation of the Global Chicago Center. He is co-author of a book, also called *Global Chicago*, published by the University of Illinois Press. His new book, *Caught in the Middle*, describes the impact of globalization on the Midwest. He has been a Distinguished Visiting Scholar at DePaul University, an adjunct professor in international relations at Northwestern University and a regular lecturer at Columbia University and is a mentor at the Harris School at the University of Chicago.

Longworth, an Iowa native, graduated from Northwestern and won NU's Alumni Merit Award in 2000. He was a Nieman Fellow at Harvard, won the Overseas Press Club award twice, for series on globalization and the UN, and was twice a finalist for the Pulitzer Prize, in 1980 and 2003. He also has won every major national award for economic reporting, plus the Lowell Thomas award for a story on a camel trek through the Sahara Desert. He is a member of the Council on Foreign Relations in New York, has been a speaker at the Davos conferences and for five years was a mentor to StreetWise, Chicago's newspaper for the homeless.



Jeff Weld, Ph.D.
Executive Director
Iowa Governor's STEM Advisory Council

Jeffrey Weld, Ph.D., is the Executive Director of the Governor's STEM Advisory Council and Associate Professor of Biology at the University of Northern Iowa (UNI) in Cedar Falls, Iowa. Jeff has directed the Iowa Governor's STEM Advisory Council since its launch in summer 2011. He has been a member of the UNI Biology faculty since 2000. In 2007 Jeff was named the College Biology Teacher of the Year- 4-year institutions by the National Association of Biology Teachers. He has authored more than fifty research articles, essays, book chapters and the textbook *The Game of Science Education* published in 2004, focusing on research into the barriers to innovative science teaching at the secondary and collegiate levels and how to overcome them. He is past President of the Iowa Science Teachers association and of UNI's chapter of Sigma Xi — the scientific research society. Prior to joining UNI, Jeff served on the faculty at Oklahoma State University after earning a doctorate in Science Education with an emphasis in ecology and endocrinology from the University of Iowa in 1998. Formerly a high school biology and chemistry teacher in Mission, Texas, Kirkwood, Missouri, and Pella, Iowa, Jeff was named the Ciba-Geigy 1993 *Life Science Teacher of the Year* in Iowa; a 1994 recipient of the Pella Corporation *Focus on Teaching Excellence* award; and in 1995 one of fifty national *Access Excellence Fellows* of the Genentech corporation. Jeff serves on several state and national boards including the Board of Directors of the National Alliance for Partnerships in Equity Education Foundation and the Triangle Coalition for Science and Technology.

Break-Out Sessions I



STATEWIDE BROADBAND – Room 102

John Carver
Superintendent
Howard-Winneshiek Community School District



STEM LICENSE/ENDORSEMENT – Room 103

Kris Kilibarda, Ph.D
South Central Regional STEM Manager
Drake University



INFORMAL STEM NETWORK – Room 104

Deb Dunkhase
Executive Director
The Iowa Children's Museum



NONTRADITIONAL PATHWAY TO STEM CLASSROOM – Room 105

Representative Joshua Byrnes
State Representative
District 51

Jeff Weld, Ph.D.
Executive Director
Iowa Governor's STEM Advisory Council



INTERSTATE STEM OBSERVATIONS – Room 106

Gina Schatteman
Professor Emeritus
University of Iowa

Break-Out Sessions II



STEM PROFESSIONAL DEVELOPMENT – Room 101

Lynne Campbell
North Central Regional STEM Manager
Iowa State University



STEM-FOCUSED SCHOOLS – Room 102

Kari Webb
Northwest Regional STEM Manager
Iowa Lakes Community College



BUSINESS ENGAGEMENT IN STEM – Room 103

James Hoelscher
Northeast Regional STEM Manager
University of Northern Iowa



IOWA DISTRICT EXCELLENCE AWARD IN STEM (IDEAS) – Room 104

Cassara Higgins
Student Assistant
Governor's STEM Advisory Council Administrative Office

Jeff Weld, Ph.D
Executive Director
Iowa Governor's STEM Advisory Council



STEM FILM FESTIVAL – Room 105

Vaughn Halyard
CEO
StoryLounge Media

Luncheon



STEM SCALE-UP at GREENWOOD ELEMENTARY SCHOOL – Ballroom A

Eric Huinker
Principal
Greenwood Elementary School
Des Moines, IA

Break-Out Sessions III



SKILLED IOWA & STEM JOBS – Room 101

Teresa Wahlert
Director
Iowa Workforce Development



SCALE-UP ROUND II – How, When and Whom – Room 102

Beth Kulow
Southwest Regional STEM Manager
Southwestern Community College



Rebecca Whitaker
Southeast Regional STEM Manager
University of Iowa/Kirkwood Community College



STEM INITIATIVE MONITORING UPDATE – Room 103

Disa Cornish, Ph.D.
Center for Social and Behavioral Research
University of Northern Iowa



Mari Kemis
Research Institute for Studies in Education
Iowa State University



SCALE-UP DEMONSTRATION – Room 104

FTC Team 3550
Emmaly Burkland, Coach



GRANT PURSUITS ON BEHALF OF THE GOVERNOR'S STEM COUNCIL – Room 105

Cari Campbell
CEO
Cari Campbell & Associates